

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1 Claim 1 (Currently Amended). An inkjet recording head comprising:
2 a pressure chamber plate formed with a plurality of pressure
3 chambers filled with ink, the pressure chambers being aligned in a row that
4 extends in a first direction;
5 a diaphragm adhered to the pressure chamber plate;
6 a housing having a first surface and a second surface opposing the
7 first surface, the first surface being adhered to the diaphragm, the first
8 surface being formed with a plurality of first grooves that extend in a
9 second direction perpendicular to the first direction, the first grooves
10 confronting the pressure chambers with the diaphragm interposed between
11 the first grooves and the pressure chambers, the second surface being
12 formed with a second groove that extends in the first direction, the first
13 grooves intersecting the second groove at positions that confront the
14 pressure chambers, wherein a plurality of through holes that extend from
15 the first surface through to the second surface of the housing are formed
16 where the first grooves intersect the second groove; and
17 a plurality of actuators housed in the through holes, one end of each
18 actuator being adhered to the diaphragm.

1 2. (Original) The inkjet recording head as claimed in claim 1, wherein the
2 first grooves are filled with resin except at positions of the through holes,
3 and the resin has a surface that shares the same plane with the first surface
4 of the housing.

1 3. (Original) The inkjet recording head as claimed in claim 1, wherein the
2 first grooves of the housing are formed using a dicer.

1 4. (Original) The inkjet recording head as claimed in claim 1, wherein the
2 first grooves of the housing are formed using a wire saw.

1 5. (Original) An inkjet recording device comprising a head unit including a
2 plurality of inkjet recording heads as claimed in claim 1, the plurality of
3 inkjet recording heads being aligned in a row.

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1 10. (Currently Amended) An inkjet recording head comprising:
2 a pressure chamber plate formed with a plurality of pressure
3 chambers filled with ink, the pressure chambers being aligned in a row that
4 extends in a lengthwise direction;
5 a diaphragm adhered to the pressure chamber plate;
6 a housing having a first surface adhered to the diaphragm, the
7 housing being formed with a plurality of through holes at positions
8 corresponding to the pressure chambers with the diaphragm interposed
9 between the through holes and the pressure chambers; and
10 a plurality of actuators disposed in the through holes, one end of
11 each actuator being adhered to the diaphragm.

1 11. (Currently Amended) An inkjet recording head comprising:
2 a pressure chamber plate formed with a plurality of pressure
3 chambers aligned in a row;
4 a set of piezoelectric elements fixed to the pressure chamber plate
5 at positions that correspond to the pressure chambers in the chamber plate;
6 a housing that supports the pressure chamber plate; and
7 a support member including a comb-shaped section divided into a
8 plurality of teeth, the comb-shaped section being adhered to the pressure
9 chamber plate with the teeth interposed between adjacent ones of the

10 piezoelectric elements.

1 12. (Original) The inkjet recording head as claimed in claim 11, wherein
2 the housing has a greater rigidity than the chamber plate, the support
3 member having a rigidity at least as great as rigidity of the chamber plate,
4 the support member further including a support section that supports the
5 comb-shaped section, the support section being fixed to the housing.

1 13. (Original) The inkjet recording head as claimed in claim 11, wherein
2 the support member is fixed to the housing and extends in a direction in
3 which the teeth are aligned to a length that is shorter than a length of the
4 housing.

1 14. (Original) The inkjet recording head as claimed in claim 11, wherein a
2 surface of the support member that confronts the chamber plate and a
3 surface of the housing that confronts the chamber plate form a connection
4 surface having a flatness of 15 microns or less.

1 15. (Original) The inkjet recording head as claimed in claim 11, wherein
2 the housing is formed with a first positioning portion, and
3 the support member is formed with a second positioning portion,
4 and the support member is fixed to the housing as positioned by the first
5 positioning portion, and the chamber plate is stacked on the support
6 member as positioned by the second positioning portion.

1 16. (Original) The inkjet recording head as claimed in claim 11, wherein
2 the set of piezoelectric elements includes a group of active piezoelectric
3 elements and dummy piezoelectric elements disposed on both sides of the
4 group of active piezoelectric elements, one end of each of the dummy
5 piezoelectric elements being fixed to the support member.

1 17. (Original) The inkjet recording head as claimed in claim 16, wherein
2 each dummy piezoelectric element has a width that is larger than a width
3 of each active piezoelectric element.

1 18. (Original) The inkjet recording head as claimed in claim 11, further
2 comprising a fixing member to which one end of each of the dummy
3 piezoelectric elements is fixed, the fixing member including arm portions
4 that extend toward the chamber plate, the arm portions each having a free
5 end with a tip fixed to the support member.

1 19. (Original) The inkjet recording head as claimed in claim 11, wherein
2 the support member has a substantially U shape in cross section.

1 20. (Original) The inkjet recording head as claimed in claim 11, wherein
2 the support member has a substantially L shape in cross section.

1 21. (Original) The inkjet recording head as claimed in claim 11, wherein
2 the support member includes a pair of L-shaped members each having a
3 substantially L shape in cross section, the pair of L-shaped members being
4 disposed in confrontation with each other.

1 22. (Original) The inkjet recording head as claimed in claim 21, wherein
2 the plurality of pressure chambers are juxtaposed at a predetermined pitch,
3 the pair of L-shaped members being shifted from each other by 1/2 the
4 pitch of the plurality of pressure chambers.

1 23. (Original) A recording device comprising the inkjet recording head as
2 claimed in claim 11.

3 24. (New). An inkjet recording head comprising:

4 a pressure chamber plate formed with a plurality of pressure
5 chambers filled with ink, the pressure chambers being aligned in a row that
6 extends in a lengthwise direction;
7 a diaphragm adhered to the pressure chamber plate;
8 a housing having a first surface adhered to the diaphragm, the
9 housing being formed with a plurality of through holes at positions
10 corresponding to the pressure chambers with the diaphragm interposed
11 between the through holes and the pressure chambers; and
12 a plurality of actuators disposed in the through holes, one end of
13 each actuator being adhered to the diaphragm, wherein
14 the housing is produced by:
15 a) forming a groove into a first surface of a plate, the first
16 groove extending in the lengthwise direction and forming a thin region in
17 the plate; and
18 b) punching a plurality of through holes through the thin
19 region, the through holes being formed at predetermined pitch.